WEST Search History

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DATE: Monday, March 05, 2007

Hide?	<u>Set</u> Name	Query	<u>Hit</u> Count			
	DB=PGPB; $PLUR=YES$; $OP=OR$					
	L33	(garbage and collect\$4 and reset\$4 and mark and (hierarchical or root)).clm.	0			
	L32	(garbage and collect\$4 and reset\$4 and mark and root).clm.	0			
	L31	(garbage and collect\$4 and reset\$4 and mark).clm.	3			
	L30	(garbage and collect\$4 and reset\$4).clm.	16			
	L29	(garbage and collect\$4 and free and space and mark and heap and root).clm.	0			
	L28	(garbage and collect\$4 and free and space and mark and heap).clm.	2			
	L27	(garbage and collect\$4 and free and space and mark).clm.	2			
	L26	(garbage and collect\$4 and free and space and bit and mark).clm.	0			
	L25	(garbage and collect\$4 and free and space).clm.	19			
	L24	(segment\$1 and object\$1 and garbage and collect\$4 and allocat\$4 and root and space).clm.	0			
	L23	(segment\$1 and object\$1 and garbage and collect\$4 and allocat\$4 and root and free).clm.	0			
	L22	(segment\$1 and object\$1 and garbage and collect\$4 and allocat\$4 and root).clm.	1			
	L21	(segment\$1 and object\$1 and garbage and collect\$4 and allocat\$4).clm.	6			
	L20	(segment\$1 and object\$1 and garbage and collect\$4 and lazy).clm.	0			
	L19	(segment\$1 and object\$1 and garbage and collect\$4 and single and space).clm.	0			
	L18	(segment\$1 and object\$1 and garbage and collect\$4).clm.	10			
	L17	(garbage and collect\$4 and heap and mark and allocat\$4 and bit\$1 and enumeration and root and select\$4 and perform\$4 and switch\$3).clm.	0			
	L16	(garbage and collect\$4 and heap and mark and allocat\$4 and bit\$1 and enumeration and root and select\$4 and perform\$4 and reset\$4).clm.	0			
	L15	(garbage and collect\$4 and heap and mark and allocat\$4 and bit\$1 and enumeration and root and select\$4 and perform\$4 and heap).clm.	1			
	L14	(garbage and collect\$4 and heap and mark and allocat\$4 and bit\$1 and enumeration and root and select\$4 and perform\$4).clm.	1			
	L13	(garbage and collect\$4 and heap and mark and allocat\$4 and bit\$1 and enumeration and root and select\$4 and laz\$3).clm.	0			
	L12	(garbage and collect\$4 and heap and mark and allocat\$4 and bit\$1 and enumeration and root and select\$4).clm.	1			
	L11	(garbage and collect\$4 and heap and mark and allocat\$4 and bit\$1 and enumeration and root).clm.	1			

L10	(garbage and collect\$4 and heap and mark and allocat\$4 and bit\$1 and enumeration).clm.	1
L9	(garbage and collect\$4 and heap and mark and allocat\$4 and bit\$1).clm.	2
L8	(garbage and collect\$4 and heap and mark and allocat\$4 and segment\$1).clm.	0
L7	(garbage and collect\$4 and heap and mark and allocat\$4).clm.	6
L6	(garbage and collect\$4 and heap and mark and object\$1 and lazy).clm.	0
L5	(garbage and collect\$4 and heap and mark and object\$1 and switch\$3).clm.	0
L4	(garbage and collect\$4 and heap and mark and root).clm.	2
L3	(garbage and collect\$4 and heap and mark and bit\$1 and allocat\$4).clm.	2
L2	(garbage and collect\$4 and heap and mark and bit\$1).clm.	4
L1	(garbage and collect\$4 and heap and mark).clm.	17

END OF SEARCH HISTORY

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DATE: Monday, March 05, 2007

Hide?	<u>Set</u> Name	Query	<u>Hit</u> Count
	DB=P	GPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=YES; OP=ADJ	
	L134	L132 and (switch\$3 near5 module\$1)	0
	L133	(switch\$3 near5 module\$1)L132	47483
	L132	L131 and client\$1	1
	L131	L130 and server\$1	1
	L130	L129 and (scann\$3 near5 object\$1)	2
	L129	L128 and l101	3
	L128	(reset\$3 near5 mark) and (allocat\$3 near5 bit\$1) and @py<=2004	39
	L127	L126 and segment\$1 and @py<=2004	6
	L126	L125 and l101	6
	L125	(mark and allocat\$3 and bit and switch\$3 and root and lazy) and @py<=2004	160
	L124	(mark and allocat\$3 and bit and switch\$3 and root and lazy).clm. and @py<=2004	0
	L123	L122 and module\$1	7
	L122	L121 and client\$1 and server\$1	26
	L121	L120 and (garbage near5 collect\$4)	67
	L120	1112 and (mark or allocation)	100
	L119	1112 and 'mark/allocation'	0
	L118	l112 and (identifed near5 object\$1)	0
	L117	1112 and enumeration	0
	L116	1112 and (bit same lazy)	0
	L115	6598141 .uref.	2
	L114	L113 and mark\$3 and @py<=2004	6
	L113	L112 and (heap near5 segment\$1)	7
	.L112	l101 and (scann\$3 near5 object\$1)	129
	L111	L109 and (heap near5 segment\$1)	0
	L110	L109 and (identif\$4 near5 root)	0
	L109	L101 and (lazy same select\$4)	24
	L108	L106 and regenerat\$3 and @py<=2004	0
	L107	L106 and (regenerat\$3 same switch\$3)	0
	L106	1105 and ((root or hierarch\$4) near5 object\$1)	12

	L105	L104 and root	14
	L104	L103 and (allocat\$3 near5 bit\$1)	16
	L103	L102 and (mark near5 bit\$1)	27
	L102	L101 and heap	528
	L101	L100 or 199 or 198	6587
	L100	717/108,116,118,148,170.ccls.	1855
	L99	711/159,170.ccls.	3059
	L98	707/103R-103y.ccls.	1777
	L97	L96 and heap	4
	L96	L95 and mark and sweep	5
	L95	L93 and lazy	50
	L94	L93 and (lazy neaer5 generat\$4)	0
口	L93	(multi near5 thread\$3) and java and (garbage near5 collect\$4) and @py<=2004	302
	L92	(multi near5 thread\$3) and java and (garbage near5 collect\$4) and @py<=2004L91	302
	L91	L90 and sweep	3
	L90	L89 and mark	4
\Box	L89	L88 and pointer\$1	4
	L88 .	L87 and (divid\$3 near5 heap)	4
	L87	L85 and (heap near5 memory)	17
	L86	L85 and (heap near5 segment\$1)	0
	L85	L84 and lazy	99
	L84	java and garbage and collect\$4 and @py<=2004	1336
	L83	(lazy near5 generat\$4) and garbage and collect\$3 and @py<=2004	1
	L82	(locat\$3 near5 root) and (lazy near5 generat\$4) and garbage and collect\$3 and @py<=2004	0
	L81	(root near5 object\$1) and (mark near5 bit\$1) and lazy and @py<=2004	5
	L80	L79 and lazy	0
	L 7 9	L78 and (mark near5 bit\$1)	8
	L78	L77 and segment\$1	11
	L77	L76 and garbage	11
	L76	L75 and memory	. 11
	L75	L74 and root	11
	L74	(divid\$3 near5 heap) and (mark near5 sweep) and segment\$1 and @py<=2004	17
	L73	(heap segments) and (mark\$sweep) and @py<=2004	2
	L72	L71 and lazy	0
	L71	L70 and mark and sweep	5
	L70	L68 and (pointer\$1 same address)	12

.

	L69	L68 and lazy	0
	L68	L63 and (root near5 object\$1)	15
	L67	L66 and lazy	0
	L66	L65 and root	26
	L65	L64 and memory	46
	L64	L63 and mark	46
	L63	(heap near5 segment\$1') and (garbage near5 collect\$4) and @py<=2004	70
	L62	(heap near5 segment\$1) and root and mark and lazy	1
	L61	L60 and lazy	7
	L60	L59 and segment\$1	107
	L59	heap and mark and root and garbage and collect\$4 and @py<=2004	229
	L58	heap and segment\$1 and garbage and root and Isazy and @py<=2004	0
	L57	heap and segment\$1 and enumeration and root and lsazy and @py<=2004	0
	L56	(heap near5 segment\$1) and lazy and root and @py<=2004	0
	L55	(heap near5 segment\$1) and (root near5 object\$1) and lazy and @py<=2004	0
	L54	(heap near5 segment\$1) and (root near5 object\$1) and (lazy near5 root) and @py<=2004	0
	L53	L44 and lazy	0
\Box .	L52	L44 and retain\$3	0
	L51	L44 and scann\$3	1
	L50	L49 and heap	1
	L49	L44 and pointer\$1	1
	L48	L44 and (pointer\$1 same heap)	0
	L47	L44 and (pointer\$1 near5 heap)	0
	L46	L44 and resett\$4	1
	L45	L43 and (root near5 enumeration)	0
	L44	L43 and root	1
	L43	6324631.pn.	2
	L42	L40 and garbage	3
	L41	L40 and (garbage near5 collect\$4)	0
	L40	(combin\$3 near5 bit\$1) and (mark bit\$1) and (memory bit\$1) and @py<=2004	18
	L39	L38 and (allocat\$4 near5 bit)	8
	L38	(mark bit) and (memory allocation) and @py<=2004	22
	L37	(mark bit) and (allocation bit)	4
	L36	(mark bit) and (allocation bit) and memory and garbage and collection and @py<=2004	0
		(mark bit) same (allocation bit) and memory and garbage and collection and	

. 3

•		L35	@py<=2004	0
•		L34	L33 and (garbage near5 collect\$4)	3
		L33	L32 and (memory near5 space)	13
		L32	(mark near5 bit) same (allocat\$4 near5 bit) and @py<=2004	79
		L31	6950838.pn.	2
		L30	L28 and (heap near5 mark)	9
		L29	L28 and (heap near5 mark\$bit\$1)	0
	口	L28	L26 and (mark near5 bit\$1)	27
		L27	L26 and (allocat\$3 near5 mark\$bit\$1)	0
		L26	(mark\$sweep) and (memory near5 allocat\$4) and (garbage near5 collect\$4) and @py<=2004	101
		L25	L24 and (heap near5 object\$1)	7 .
	and the state of t	L24	(allocat\$4 near5 memory) and (allocat\$4 near5 bit\$1) and (mark near5 allocat\$4) and (garbage near5 collect\$4) and @py<=2004	15
		L23	L22 and root	6
		L22	L20 and switch\$3	6
		L21	L20 and (switch\$3 near5 allocat\$4)	0
		L20	L19 and root and java	18
		L19	L18 and pointer\$1	22
		L18	L17 and (object near5 heap)	25
		L17	L16 and (memory near5 allocat\$4)	27
		L16	L15 and (mark near5 bit\$1)	27
		L15	L14 and (mark\$sweep)	101
		L14	(memory near5 allocat\$4) and (garbage near5 collect\$4) and @py<=2004	1232
		L13	(mark near5 bit\$1) same (allocat\$3 near bit\$1) and (memory near5 location) and @py<=2004	7
		L12	L11 and root	2
		L11	L10 and heap	6
		L10	L9 and object\$1	8
		L9	L8 and (mark near5 bit)	8
		L8	L7 and (allocat\$4 near5 bit)	22
·		L7	L6 and (garbage near5 structure)	163
		L6	(allocat\$4 near5 memory) and (garbage near5 collect\$4) and @py<=2004	1232
		L5	L4 and (bit near5 pointer\$1)	7
		L4	L3 and (object\$1 near5 heap)	30
		L3	L2 and (memory near5 allocat\$4)	31
		L2	L1 and (mark near5 bit\$1)	31
		L1	(root near5 object\$1) and java and (garbage near5 collect\$4) and @py<=2004	247

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S20
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s21
                  S5 AND S20
                  S14 OR S17 OR S21
S22
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S23
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                   S16 OR S22
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File 348: EUROPEAN PATENTS 1978-2007/ 200708
           (c) 2007 European Patent Office
File 349:PCT FULLTEXT 1979-2007/UB=20070222UT=20070215
           (c) 2007 WIPO/Thomson
                   Description
Set
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S1
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S17
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S2(100N)S7:S11
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s18
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S21
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S22
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             (c) 2007 JPO & JAPIO
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             (c) 2007 The Thomson Corporation
                     Description
Set
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IET CNF	IET Conference Proceeding	Maheshwari, U.; Liskov, B.H.; Parallel and Distributed Information Systems, 1994., Proceedings of the 1	Third I
IEEE STD	IEEE Standard	<u>Conference on</u> 28-30 Sept. 1994 Page(s):239 - 248 Digital Object Identifier 10.1109/PDIS.1994.331710	
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		2. Mining client-side activity for personalization Fenstermacher, K.D.; Ginsburg, M.; Advanced Issues of E-Commerce and Web-Based Information Systems, 2002). Proceedings. Fourth IEEE International Workshop on 26-28 June 2002 Page(s):205 - 212 Digital Object Identifier 10.1109/WECWIS.2002.1021260	<u>2002</u> .
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		4. A real-time RMI framework for the RTSJ Borg, A.; Wellings, A.; Real-Time Systems, 2003. Proceedings. 15th Euromicro Conference on 2-4 July 2003 Page(s):238 - 246	
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		5. Impact of JIT/JVM optimizations on JAVA application performance Shiv, K.; Iyer, R.; Newburn, C.; Dahlstedt, J.; Lagergren, M.; Lindholm, O. Interaction Between Compilers and Computer Architectures, 2003. INTER Proceedings. Seventh Workshop on 8 Feb. 2003 Page(s):5 - 13	

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6. Hardware support for concurrent garbage collection in SMP systems
Chang, J.M.; Srisa-An, W.; Chia-Tien Dan Lo;
High Performance Computing in the Asia-Pacific Region, 2000. Proceedings. 1
International Conference/Exhibition on
Volume 1, 14-17 May 2000 Page(s):513 - 517 vol.1
Digital Object Identifier 10.1109/HPC.2000.846607

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IEEE CNF	IEEE Conference Proceeding	1. Scalable hardware-algorithm for mark-sweep garbage collection Srisa-An, W.; Chia-Tien Dan Lo; Chang, J.M.;	
IET CNF	IET Conference Proceeding	Euromicro Conference, 2000. Proceedings of the 26th Volume 1, 5-7 Sept. 2000 Page(s):274 - 281 vol.1	
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		 A performance comparison between stop-the-world and multithreade generational garbage collection for Java Lo, CT.D.; Srisa-an, W.; Chang, J.M.; Performance, Computing, and Communications Conference, 2002. 21st IE 3-5 April 2002 Page(s):301 - 308 Digital Object Identifier 10.1109/IPCCC.2002.995163 AbstractPlus Full Text: PDF(748 KB) IEEE CNF Rights and Permissions 	
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ery switching roles and with all forwarding pointers being reset. ... mark-sweep garbage

collection. In H. G. Baker, editor, ...

user.it.uu.se/~kostis/Papers/ismm04.pdf - Similar pages

[PDF] Profile-guided Proactive Garbage Collection for Locality Optimization

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bit in the object header. In addition, to optimize cache locality we ... Allocation and

Garbage Collection Times." In Proceedings ...

research.microsoft.com/~trishulc/papers/halo.pdf - Similar pages

[PDF] Garbage Collection Algorithms for Java-Based Prolog Engines

File Format: PDF/Adobe Acrobat

the top of the heap is reset. If the active heap is one fourth of the total heap ... "Simple

Generational Garbage Collection and Fast Allocation." ...

www.springerlink.com/index/742U55156NMTGD8L.pdf - Similar pages

'Fwd: Our changes to KHTML and KJS' - MARC

Fixed tables to **reset** the font to the <body> font and not to the default ... This greatly reduces the number of objects the **garbage collector** needs to deal ... lists.kde.org/?l=kfm-devel&m=104196912316326&w=2 - <u>Similar pages</u>

Free item distribution among multiple free lists during garbage ...

Garbage collector 206 may perform garbage collection using mark and sweep phases, ...

Previous Patent (Memory allocation using mask-bit pattern

freepatentsonline.com/7149866.html - 104k - Cached - Similar pages

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2003 resetting mark allocation bit gal Se

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Patents 1 - 10 on mark allocation garbage collection. (0.76 seconds)

Incremental garbage collection

Sort by relevance | Sort by date (new first) | Sort by date (old first)

US Pat. 6353838 - Filed Jun 27, 2001 - Microsoft Corporation

INCREMENTAL GARBAGE COLLECTION RELATED APPLICATIONS This application is a ...

used and reclaiming the memory to satisfy future memory allocation requests. ...

System and method for hard real-time garbage collection requiring a write barrier but no read barrier

US Pat. 5293614 - Filed Apr 8, 1991 - Texas Instruments Incorporated

During garbage collection objects are moved from condemned region 352 into one

of the ... Each object 1-5, at its allocation, will include a mark word 1000, ...

Local allocation buffers for parallel garbage collection

US Pat. 6826583 - Filed Oct 25, 2000 - Sun Microsystems, Inc.

"A Scalable Mark-Sweep Garbage Collector on Large-Scale Shared-Memory Machines",

... "Simple Generational Garbage Collection and Fast Allocation," Software: ...

Adaptive scheduler for mark and sweep garbage collection in interactive systems

US Pat. 6349314 - Filed Sep 29, 1999 - Motorola, Inc.

One such conventional garbage collection algorithm, referred to as mark and ...

Since memory allocation tends to be unpredictable, it is possible that the ...

Apparatus and method for assisting exact garbage collection by using a stack cache of tag bits

US Pat. 6101580 - Filed Apr 23, 1997 - Sun Microsystems, Inc.

Dynamic Storage Allocation: A Survey and Critical Review, by Paul R. Wilson et

... Garbage Collection, Algorithms for Automatic Dynamic Memory Management, ...

Write barrier system and method for trapping garbage collection page boundary crossing pointer stores

US Pat. 5845298 - Filed Apr 23, 1997 - Sun Microsystems, Inc.

In most programming 35 **garbage collection** schemes divide the heap into two or more languages, heap **allocation** is required for data structures that ...

Generation isolation system and method for garbage collection

US Pat. 6098089 - Filed Apr 23, 1997 - Sun Microsystems, Inc.

In most programming languages, heap allocation is required for data structures

... Garbage collection within a generation can be by copying, mark-sweep, ...

Dynamic memory space allocation

US Pat. 6360233 - Filed Jun 17, 1999 - U.S. Philips Corporation

United States Patent Houldsworth (54) DYNAMIC MEMORY SPACE ALLOCATION (75) Inventor:

... One pass real-time generational mark-sweep garbage collection by J. ...

Method and system for detecting and coalescing free areas during garbage collection

US Pat. 6324631 - Filed Jun 17, 1999 - International Business Machines Corporation

Still more particularly, the present 10 invention relates to mark-sweep garbage

collection memory management for object oriented programs within data ...

Method and system for eliminating synchronization between sweep and allocate in a concurrent garbage collector

US Pat. 6289360 - Filed Oct 7, 1998 - International Business Machines Corporation The method according to claim 1, wherein one or more mutator threads intermittently takes on a rôle of **garbage collection**. 18. ...

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Patents 11 - 20 on mark allocation garbage collection. (0.11 seconds)

Elimination of coloring during object Sort by relevance | Sort by date (new first) | Sort by date (old first) creation for concurrent garbage collection

US Pat. 6721865 - Filed Apr 10, 2001 - International Business Machines Corporation During the transition intervals, the **allocation** color may be either ... GC cycles of the collector include a **mark**/trace phase 62 and a sweep phase 69. ...

Bounded-pause time garbage collection system and method including write barrier associated with a source instance of a partially relocated object

US Pat. 5873105 - Filed Jun 26, 1997 - Sun Microsystems, Inc.

Three classical **garbage collection** methods are reference counting, **mark**-sweep, and copying storage reclamation. The first, reference counting, ...

Bounded-pause time **garbage collection** system and method including write barrier associated with source and target instances of a partially relocated object

US Pat. 5873104 - Filed Jun 26, 1997 - Sun Microsystems, Inc.

Three classical **garbage collection** methods are reference counting, **mark**-sweep, and copying storage reclamation. The first, reference counting, ...

Bounded-pause time garbage collection system and method including read and write barriers associated with an instance of a partially relocated object

US Pat. 5857210 - Filed Jun 26, 1997 - Sun Microsystems, Inc.

Three classical **garbage collection** methods are reference counting, **mark**-sweep, and copying storage reclamation. The first, reference counting, ...

Method and system for reclaiming unreferenced computer memory space

US Pat. 5321834 - Filed Oct 21, 1993 - Xerox Corporation
Copying collectors are thus incompatible with BACKGROUND OF THE INVENTION
10 "conservative" garbage collection. In conservative col- This invention relates ...

Locating references and roots for in-cache garbage collection

US Pat. 6950838 - Filed Apr 17, 2002 - Sun Microsystems, Inc.

Various 10 events may trigger **garbage collection**, for example, **garbage collection** may be triggered during a memory **allocation** step where the amount of ...

Post dump garbage collection

US Pat. 6226761 - Filed Sep 24, 1998 - International Business Machines Corporation The post-dump **garbage collection** mechanism of the present invention preferably utilizes the **mark**-sweep **garbage collection** scheme. **Allocation** table 302 from ...

Method and apparatus for generational garbage collection of a heap memory shared by multiple processors

US Pat. 6199075 - Filed May 30, 1997 - Sun Microsystems, Inc. However, the 'heap allocation' process 150 continues to a 'garbage collection'

procedure 159 if the 'node allocation' procedure 153 was unsuccessful. ...

Write barrier system and method including pointer-specific instruction variant replacement

mechanism

US Pat. 5953736 - Filed Apr 23, 1997 - Sun Microsystems, Inc. Garbage collection Because of this difficulty, garbage collection, ie, autowithin a generation can be by copying, mark-sweep, or other matic reclamation ...

Concurrent shared object implemented using a linked-list with amortized node allocation US Pat. 7017160 - Filed Apr 18, 2001 - Sun Microsystems, Inc.

However, for some realizations, a garbage collection facility may be ... Deque with Amortized Node Allocation One embodiment in accordance with the present ...

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Patents 21 - 30 on mark allocation garbage collection. (0.14 seconds)

<u>CPU-controlled garbage-collecting</u> memory module

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US Pat. 5687368 - Filed Jul 22, 1994 - Iowa State University Research Foundation, Inc. However, value is a pointer before attempting to **mark** the referenced 15 higher,

since garbage collection of the youngest generation object. At allocation ...

Method of delaying space allocation for parallel copying garbage collection

US Pat. 6427154 - Filed Aug 2, 2000 - International Business Machines Corporation

Prior Art 15 Garbage collection is the automatic reclamation of com-puter storage.

... as in the Mark and Sweep algorithm) and the simplicity of allocation. ...

Lock-free implementation of concurrent shared object with dynamic node allocation and distinguishing pointer value

US Pat. 6826757 - Filed Apr 18, 2001 - Sun Microsystems, Inc.

Other languages provide analogous facilities for explicit allocation and ...

Garbage collection is particularly attractive for languages such as the JAVA™ ...

Method and system for shadow heap memory leak detection and other heap analysis in an object-oriented environment during real-time trace processing

US Pat. 6658652 - Filed Jun 8, 2000 - International Business Machines Corporation

Once all object allocation spaces have been checked the process ends. ... At the

beginning of garbage collection the live counts ...

Method and apparatus for enhancing data storage efficiency

US Pat. 4989134 - Filed Mar 20, 1987 - Hewlett-Packard Company

The benefits of a mark and sweep collector are that 15 no dead structure can

survive a garbage collection, data need not be ...

Measuring the exact memory requirement of an application through intensive use of **garbage** collector

US Pat. 6898602 - Filed Dec 10, 2002 - Sun Microsystems Inc.

In one variation, garbage collection can be forced by simply calling the garbage

... as a conventional memory allocation function, without intensive garbage ...

Methods and apparatus for enabling local Java object allocation and collection

US Pat. 6757890 - Filed Dec 28, 2000 - Sun Microsystems, Inc.

Two commonly used garbage collection methods include "mark and sweep" ...

garbage collection algorithms allowing faster and better allocation of space for ...

Asynchronous garbage collection

US Pat. 5355483 - Filed Jul 18, 1991 - NeXT Computers

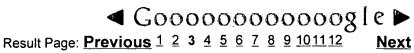
Since newspace 402 is scanned from the same end that allocation first occurred

and the scan ... If a garbage collection occurs while the situation of FIG. ...

Apparatus, method, and program for implementing garbage collection suitable for real-time processing

US Pat. 6839726 - Filed Dec 12, 2002 - Matsushita Electric Industrial Co., Ltd. The mark-and-sweep system is disclosed, for example, in Publication of ... The garbage collection apparatus comprises: an allocation unit operable to ...

Method and apparatus for assisting garbage collection process within a java virtual machine US Pat. 6070173 - Filed Nov 26, 1997 - International Business Machines Corporation Also note that, in the preferred embodiment, the garbage collection ... Finally, mark bit field 54 is for indicating an active object allocation unit. ...



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Patents 31 - 40 on mark allocation garbage collection. (0.07 seconds)

Method for practical concurrent

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copying garbage collection offering minimal thread block times

US Pat. 6671707 - Filed Oct 19, 1999 - Intel Corporation

Overview of Allocation and Copying The mark phases above establish which O objects

are reachable. Those phases are the primary ones extended to handle Java ...

Conservative garbage collectors that can be used with general memory allocators

US Pat. 7051056 - Filed Sep 13, 2001 - VERITAS Operating Corporation

The garbage 55 collector also uses the table in the mark phase to make a ...

in the 65 current heap are collectible, ie, subject to garbage collection; ...

Dynamic memory reclamation without compiler or linker assistance

US Pat. 6125434 - Filed May 19, 1998 - Northorp Grumman Corporation

The time cost of the mark step of the garbage collection process is proportional

... wherein an application program sends requests for memory allocation and ...

System and method for memory reclamation

US Pat. 6874074 - Filed Nov 13, 2000 - Wind River Systems, Inc.

Skilled practitioners will appreciate that modifications may be made to allow

non-atomic memory allocation, garbage collection, and de-allocation, eg, ...

Method for efficient soft real-time execution of portable byte code computer programs

US Pat. 6081665 - Filed Dec 19, 1997 - Newmonics Inc.

- ... the implementing step comprising the steps: causing the non-empty mark-and-
- ... causing the garbage collection thread to credit the memory allocation ...

Data processing memory space allocation and deallocation arrangements

US Pat. 4121286 - Filed Oct 8, 1976 - Plessey Handel und Investments AG

The garbage collection process operates in two phases starting from a state in

which all the mark bits are set, say to zero. The first phase involves the ...

Dynamic adjustment of garbage collection

US Pat. 6065020 - Filed May 27, 1998 - Microsoft Corporation

Two well-known techniques for garbage collection are mark-and-sweep garbage ...

The mark-and-sweep and the copying garbage collection techniques have ...

Thread suspension system and method using trapping instructions

US Pat. 7013454 - Filed Oct 22, 2001 - Sun Microsystems, Inc.

In most programming languages, heap allocation 35 is required for data ...

Garbage collection is particularly attractive for languages such as the Java™ ...

System and method for garbage collection with ambiguous roots

US Pat. 4907151 - Filed Sep 30, 1988 - Digital Equipment Corporation

A root storage area Mark and Sweep Garbage Collectors. stores information caned

hints regarding program ob- One collection method that has been used in the ...

Method for using cache prefetch feature to improve garbage collection algorithm

US Pat. 6662274 - Filed Jun 20, 2001 - Intel Corporation

The portions that are no longer being used (garbage) are identified (collected) so that they can be reclaimed for future allocation. The garbage collection ...

mark allocation garbage collection

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lazy root garbage collection

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Patents 1 - 6 on lazy root garbage collection. (0.09 seconds)

Process for distributed garbage

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collection

US Pat. 5819299 - Filed Jun 6, 1996 - Electric Communities

After generating the identifier at step 525, **garbage** col-lecting process 500 transmits a **root** request message from the test object to all those objects that ...

Process for distributed garbage collection

US Pat. 5991779 - Filed Sep 14, 1998 - Electric Communities
After generating the identifier at step 525, **garbage** col-lecting process 500 transmits a **root** request message from the test object to all those objects that ...

Generational garbage collector with persistent object cache

US Pat. 6567905 - Filed Jan 23, 2001 - Gemstone Systems, Inc.

The Scavenge **garbage collection** then identifies live objects that are transitively reachable from stack area 62 or **Root** Set 66 or from objects copied to old ...

Integrating operating systems and run-time systems

US Pat. 6546546 - Filed Nov 24, 1999 - International Business Machines Corporation A non lazy implementation of instance state sharing remaps a full ... Garbage Collection Java uses garbage collection to reclaim unused dynamic memory. ...

Accurately determining an object's lifetime

US Pat. 6795836 - Filed Dec 29, 2000 - International Business Machines Corporation Generally, a **garbage collection** algorithm carries out storage management by ... **lazy** reference counting reduces the run-time CPU requirements by deferring ...

Method for reusing temporaries and reclaiming shared memory US Pat. 5535390 - Filed Jul 22, 1994

... US patents involving garbage collection (rec-lamation of shared memory) in

... as well as "lazy" reference counting schemes, are also inefficient in ...

lazu root	aarbaaa	collection
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enumeration garbage collection

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Patents 1 - 10 on enumeration garbage collection. (0.84 seconds)

System and method for facilitating

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unmanaged code participation in garbage collection

US Pat. 6748503 - Filed Jun 27, 2001 - Microsoft Corporation

As part of its participation in garbage collection, the unwind component can ...

no longer desires to participate in garbage collection pointer enumeration. ...

Methods and apparatus for concurrent enumeration of an object reference root set

US Pat. 6978285 - Filed Aug 22, 2002 - Intel Corporation

The term "concurrent garbage collection pro- 15 cess" as used herein refers to

a garbage collection process employing concurrent root set enumeration. ...

II X CL

US Pat. 7089273 - Filed Aug 1, 2003 - Intel Corporation

2 is an exemplary flow diagram of a high-level process in which a stack trace

cache is used during root set enumeration for garbage collection in a managed ...

Manipulating interior pointers on a stack during garbage collection

US Pat. 6598141 - Filed Mar 8, 2001 - Microsoft Corporation

Garbage collection is particularly attractive to managed or functional languages

... and does not need to have a garbage collector enumeration mechanism. ...

Declarative pinning

US Pat. 6898611 - Filed Jun 4, 2001 - Microsoft Corporation

Dynamic memory management (eg, a **garbage collection** service) is employed ... pointers and does not need to have a **garbage** collector **enumeration** mechanism. ...

Method for optimizing creation and destruction of objects in computer programs

US Pat. 6381738 - Filed Jul 16, 1999 - International Business Machines Corporation

A compiler can bypass garbage collection of objects with known lifetimes. ...

A topological sort order enumeration of nodes a graph refers to an enumeration ...

Garbage collector for hypermedia systems

US Pat. 4914586 - Filed Nov 6, 1987 - Xerox Corporation

To allow rapid queries or enumeration of database entries. B-Tree indices [2]

are built to map the values of which is useful in garbage collection. ...

Java native interface code generator

US Pat. 6066181 - Filed Dec 8, 1997 - Analysis & Technology, Inc.

Enumerations An **enumeration** allows names to be assigned to specific values ... proper memory management, including allocation, freeing and **garbage collection**.

Flexibly deleting objects in a resource constrained environment

US Pat. 6272504 - Filed Apr 9, 1999 - International Business Machines Corporation 25 This invention concerns an inventive **garbage collection** (GC) technique for use in systems with ... If O has VF set continue **enumeration** within step 4. b. ...

Method and apparatus for breaking down computing tasks across a network of heterogeneous computer for parallel execution by utilizing autonomous mobile agents

US Pat. 7082604 - Filed Apr 20, 2001 - Mobile Agent Technologies, Incorporated

The term "garbage collection" is widely exception will be placed within an array object and ... wherein the command type and function returns an enumeration ...

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client server garbage collection

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Patents 1 - 10 on client server garbage collection. (0.16 seconds)

Garbage collection in object oriented Sort by relevance | Sort by date (new first) | Sort by date (old first) databases using transactional cyclic reference counting US Pat. 6363403 - Filed Jun 30, 1999 - Lucent Technologies Inc.

Note that in the client-server system, the loganalyzer and garbage collection

Garbage collection in an object cache

US Pat. 6209003 - Filed Jul 17, 1998 - Inktomi Corporation
The World Wide Web is a popular application of the client/server computing ...
This process is called "garbage collection". Garbage collection must be ...

processes are run at the server 801. Consequently, some care, must be taken ...

Garbage collection method for time-constrained distributed applications
US Pat. 6611858 - Filed Nov 5, 1999 - Lucent Technologies Inc.
10 With regard to garbage collection, because objects are automatically ...
manner of the "client-server" architecture, where the server processes requests ...

Methods, apparatus, and product for distributed garbage collection US Pat. 6081813 - Filed Sep 11, 1998 - Sun Microsystems, Inc. Accordingly, server call processor, garbage collector, and reference count for MI component of client platform are not active and are therefore presented ...

Methods, apparatus, and product for distributed garbage collection US Pat. 5832529 - Filed Oct 11, 1996 - Sun Microsystems, Inc. Accordingly, server call processor, garbage collector, and reference count for MI component of client platform are not active and are therefore presented ...

Methods, apparatus, and product for distributed garbage collection US Pat. 6704756 - Filed May 14, 2001 - Sun Microsystems, Inc. Accordingly, server call processor, garbage collector, and reference count for MI component of client platform are not active and are therefore presented ...

Methods, apparatus, and product for distributed **garbage collection** US Pat. 6816875 - Filed Jun 19, 2003

Accordingly, **server** call processor, **garbage** collector, and reference count for MI component of **client** platform are not active and are therefore presented ...

Methods, apparatus, and product for distributed garbage collection US Pat. 6327596 - Filed Jul 27, 1999 - Sun Microsystems, Inc. Accordingly, server call processor 1031, garbage collector 1033, and reference count 1035 for MI component 1030 of client platform 1000 are not active and ...

<u>Distributed communications system having garbage collecting virtual processes</u>
US Pat. 6502109 - Filed Nov 5, 1999 - Lucent Technologies Inc.
10 With regard to garbage collection, because objects are automatically ...
manner of the "client-server" architecture, where the server processes requests ...

Garbage collector for a virtual heap

US Pat. 6865657 - Filed Jun 2, 2000 - Sun Microsystems, Inc. ... a database store method, and a **garbage collection** method as described below. 40 FIG. ... FIG. id—A **Client-Server** System with Persistent Store Space FIG. ...

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Patents 31 - 40 on client server garbage collection. (0.08 seconds)

Pledge-based resource allocation

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system

US Pat. 6301616 - Filed Apr 11, 1997 - Microsoft Corporation

During garbage collection, all client entries for FIGS. ... is extended a

pledge-based resource allocation system to a client/server w garbage collected (...

Manipulating interior pointers on a stack during garbage collection

US Pat. 6598141 - Filed Mar 8, 2001 - Microsoft Corporation

Amsaleg, L., et al.; "Garbage Collection for a Client-Server Persistent Object

.Store", ACM Transactions on Computer Systems, vol. 17, No. 3, Aug. 1999, p. ...

Lease renewal service

US Pat. 6772162 - Filed Nov 6, 2002 - Sun Microsystems, Inc.

Thus, MI component 525 will not initiate a garbage collection cycle to reclaim the

... 7 preferably includes both client components and server components. ...

Interactive debugging system with debug data base system

US Pat. 6938245 - Filed Oct 28, 1998 - Veritas Operating Corporation

The results of the new query reflect the garbage collection. ... 45 Details of

Web Server Client 243: FIGS. 4-8 Web server client 243 receives inputs from ...

Server-determined client refresh periods for dynamic directory services

US Pat. 6016508 - Filed Jul 2, 1997 - Microsoft Corporation

SERVER-DETERMINED CLIENT REFRESH PERIODS FOR DYNAMIC DIRECTORY SERVICES FIELD OF

... the server will likely just force a garbage collection to delete the ...

Server-determined client refresh periods for dynamic directory services

US Pat. 6263367 - Filed Aug 25, 1999 - Microsoft Corporation

These entries are static in that they persist until the client establishing ...

the server will likely just force a garbage collection to delete the oldest ...

Design and implementation of a client/server framework for federated multi-search and update across heterogeneous datastores

US Pat. 6370541 - Filed Sep 21, 1999 - International Business Machines Corporation

... Returns: to be returned in the **collection**. cursor position array—the array

where the ..., Exception before garbage.collection is done on this class. ...

Lease renewal service

US Pat. 6237009 - Filed Jun 14, 1999 - Sun Microsystems, Inc.

25 Accordingly, server call processor 1031, garbage collector 1033, and reference

count 1035 for MI component 1030, of client platform 1000 are not active ...

Lease renewal service

US Pat. 6449648 - Filed Oct 19, 2000 - Sun Microsystems, Inc.

25 Accordingly, server call processor 1031, garbage collector 1033, and reference

count 1035 for MI component 1030, of client platform 1000 are not active ...

Reduction of network server loading

US Pat. 6850968 - Filed Mar 23, 2000 - Service Co.

40 Garbage Collection The proxy server performs a garbage collection function.

... The signal transactions shown represent the case where the mail client is ...

client server garbage collection

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Patents 41 - 50 on client server garbage collection. (0.06 seconds)

Reducing the memory footprint of a session duration semispace

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US Pat. 6279012 - Filed Oct 13, 1998 - Oracle Corporation

Garbage collection refers to the process of automatically reclaiming memory that is currently ... Before **client** 161 issues any calls to database **server**, ...

Lease renewal service

US Pat. 6499049 - Filed Sep 19, 2001 - Sun Microsystems, Inc. Accordingly, **server** call processor 1031, **garbage** collée- 40 tor 1033, and reference count 1035 for MI component 1030 of **client** platform 1000 are not active ...

Method and system for leasing storage

US Pat. 6263350 - Filed Mar 20, 1998 - Sun Microsystems, Inc. 20 Accordingly, **server** call processor, **garbage** collector, and reference count for MI component of **client** platform are not active and are therefore ...

Method and system for leasing storage

US Pat. 6728737 - Filed Feb 15, 2002 - Sun Microsystems, Inc. call processor, an application call processor, a **garbage** collector, and reference components, either platform can act as a **client** or a **server**. ...

Leasing scheme for data-modifying operations

US Pat. 7065618 - Filed Jun 30, 2003 - Google Inc.

The **garbage collection** approach to storage reclamation offers several ... Instead, a **client** asks master 130 which chunk **server** 120 it should contact. ...

Delayed delivery of query results or other data from a federated **server** to a federated **client** until such information is needed

US Pat. 6466933 - Filed Sep 21, 1999 - International Business Machines Corporation This method allows for cleanup, 20 before **garbage-collection** is done on this ... a **server collection**, without trans-mitting any physical data to the **client**. ...

Method, apparatus, and product for leasing of group membership in a distributed system

US Pat. 6925644 - Filed Jan 31, 2003 - Sun Microsystems, Inc.

Accordingly, **server** call processor 1031, **garbage** collector 1033, and reference count 1035 for MI component 1030 of **client** platform 1000 are not active and ...

XX X XX

US Pat. 7107419 - Filed Jun 30, 2003 - higher offset considered to have failed The **garbage collection** approach to storage reclamation offers several ... Instead, a **client** asks master 130 which chunk **server** 120 it should contact. ...

Object gateway for securely forwarding messages between networks

US Pat. 6981265 - Filed Dec 4, 1998 - Hewlett-Packard Development Company, L.P. Again, there is potential **garbage collection** problem. ... 4 illustrates the basic requirements to allow a **client** 420 and **server** 410 interaction, ...

Methods and apparatus for providing quality of service for legacy applications US Pat. 6675229 - Filed Nov 29, 1999 - Lucent Technologies Inc. If r's reference count falls to zero and r's garbage collection flag GC is enabled (default), ... the client/server protocol used may need to 50 extended, ...

client server garbage collection

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1 Apparatus and method for deterministic garbage collection of a heap memory

Inventor: KAAKANI ZIAD M (US); RACHLIN ELLIOTT H Applicant: HONEYWELL INT INC (US)

(US)

EC: IPC: G06F12/00; G06F12/00 (+1)

Publication info: US2007011415 - 2007-01-11

2 Adaptive type-partitioned garbage collection

Inventor: ROHRS CHRISTOPHER HENRY (US) Applicant: HEWLETT PACKARD DEVELOPMENT CO (US)

EC: IPC: G06F17/30; G06F17/30

Publication info: **US7155467** - 2006-12-26

3 Generational real-time garbage collection

Inventor: BACON DAVID F (US); CHANG PERRY (US); Applicant: IBM (US)

(+2)

EC: IPC: G06F17/30; G06F17/30

Publication info: US2006294165 - 2006-12-28

4 Leveraging garbage collection to dynamically infer heap invariants

Inventor: SHANKAR AJEET (US); CHILIMBI TRISHUL Applicant: MICROSOFT CORP (US)

(US)

EC: IPC: G06F17/30; G06F17/30

Publication info: US2006265438 - 2006-11-23

5 Compact garbage collection tables

Inventor: TARDITI DAVID R (US)

Applicant: MICROSOFT CORP (US)

EC:

IPC: G06F17/30; G06F17/30

Publication info: **US7085789** - 2006-08-01

6 System and method for concurrent compacting self pacing garbage

collection using loaded value and access barriers

Inventor: TENE GIL (US); WOLF MICHAEL A (US)

Applicant: AZUL SYSTEMS INC (US)

EC:

IPC: G06F17/30; G06F17/30

Publication info: US2006155791 - 2006-07-13

7 System and method for performing garbage collection based on

unmanaged memory allocations

Inventor: DUSSUD PATRICK H (US); GEORGE Applicant: MICROSOFT CORP (US)

CHRISTOPHER S (US); (+1)

EC: IPC: G06F17/30; G06F17/30

Publication info: **US2006085494** - 2006-04-20

8 GENERATIONAL GARBAGE COLLECTION METHOD AND GENERATIONAL GARBAGE COLLECTION PROGRAM

Inventor: KUROMUSHIYA KENICHI Applicant: APLIX CORP

EC: IPC: G06F12/00; G06F12/00

Publication info: JP2006039877 - 2006-02-09

9 Free item distribution among multiple free lists during garbage collection for more efficient object allocation

Inventor: BLANDY GEOFFREY O (US) Applicant: IBM (US)

EC: G06F12/02D2; G06F12/02D2G IPC: G06F12/00; G06F12/00; (IPC1-7): G06F12/00

Publication info: US2005273568 - 2005-12-08

10 Assigning sections within a memory heap for efficient garbage collection of large objects

Inventor: BLANDY GEOFFREY O (US)

Applicant: IBM (US)

EC: G06F12/02D2G4

IPC: G06F12/00; G06F12/00; (IPC1-7): G06F12/00

Publication info: US2005273567 - 2005-12-08

Approximately 91 results found in the Worldwide database for: garbage in the title AND collection and heap in the title or abstract

(Results are sorted by date of upload in database)

11 GARBAGE COLLECTION FOR SMART CARDS

Inventor: TREGER JOERN (DE); PINZINGER ROBERT

(DE)

Applicant: GIESECKE & DEVRIENT GMBH (DE); TREGER JOERN (DE); (+1)

EC: G06F12/02D2G

IPC: G06F12/02; G06F12/02; (IPC1-7): G06F12/02

Publication info: WO2005093580 - 2005-10-06

12 Work stealing queues for parallel garbage collection

Inventor: FLOOD CHRISTINE H (US); DETLEFS DAVID L Applicant: SUN MICROSYSTEMS INC (US)

(US); (+3)

EC: G06F12/02D2G4G

IPC: G06F9/46; G06F12/02; G06F17/30 (+4)

Publication info: US2005132374 - 2005-06-16

13 Method and system for multiprocessor garbage collection

Inventor: DUSSUD PATRICK H (US)

Applicant: MICROSOFT CORP (US)

EC: G06F12/02D2G4 IPC: G06F12/02; G06F12/02; (IPC1-7): G06F12/00

Publication info: US2005033781 - 2005-02-10

14 System and method for performing garbage collection on a large heap

Inventor: DUSSUD PATRICK H (US) Applicant: MICROSOFT CORP

IPC: G06F12/00; G06F12/02; G06F12/00 (+2) EC: G06F12/02D2G4G

Publication info: US2005235120 - 2005-10-20

15 Method and system for improving the concurrency and parallelism of

mark-sweep-compact garbage collection

Inventor: SUBRAMONEY SREENIVAS (US); HUDSON Applicant:

RICHARD L (US)

EC: IPC: G06F17/30; G06F17/30; (IPC1-7): G06F17/30

Publication info: US2005198088 - 2005-09-08

16 Method for enabling comprehensive profiling of garbage-collected

memory systems

Inventor: LIANG SHENG (US); GRARUP STEFFEN (US) Applicant: SUN MICROSYSTEMS INC (US)

EC: G06F11/34T; G06F12/02D2G IPC: G06F11/34; G06F12/02; G06F11/34 (+2)

Publication info: US2004158589 - 2004-08-12

17 Bit vector toggling for concurrent mark-sweep garbage collection

Inventor: SUBRAMONEY SREENIVAS (US); HUDSON Applicant:

RICHARD (US)

EC: G06F12/02D2G4 IPC: G06F12/02; G06F17/30; G06F12/02 (+2)

Publication info: US2005114413 - 2005-05-26

18 Conservative garbage collectors that can be used with general memory

allocators

Inventor: RODRIGUEZ-RIVERA GUSTAVO (US); Applicant:

SPERTUS MICHAEL P (US); (+1)

EC: G06F12/02D2G IPC: G06F12/02; G06F12/02; (IPC1-7): G06F12/00

Publication info: US2004139272 - 2004-07-15

19 Optimization of memory usage based on garbage collection simulation

Inventor: COHA JOSEPH A (US); KARKARE ASHISH Applicant: HEWLETT PACKARD CO (US)

(US); (+1)

EC: G06F11/34S IPC: G06F11/28; G06F9/44; G06F9/46 (+14)

Publication info: EP1349077 - 2003-10-01

Method and system for the garbage collection of shared data

Inventor: BORMAN SAMUEL DAVID (GB); TROTTER Applicant: IBM (US) MARTIN JOHN (GB)

EC: G06F12/02D2G

IPC: (IPC1-7): G06F17/30

Publication info: US2003220952 - 2003-11-27

Approximately 91 results found in the Worldwide database for: garbage in the title AND collection and heap in the title or abstract (Results are sorted by date of upload in database)

21 Apparatus, method, and program for implementing garbage collection suitable for real-time processing

Inventor: KAWAMOTO TAKUJI (JP)

EC: G06F12/02D2G4G IPC: G06F12/00; G06F9/44; G06F9/46 (+6)

Publication info: US2003140071 - 2003-07-24

22 Combining external and intragenerational reference-processing in a garbage collector based on the train algorithm

Inventor: GARTHWAITE ALEXANDER T (US) Applicant:

EC: G06F12/02D2G4G IPC: (IPC1-7): G06F12/00

Publication info: US2004111447 - 2004-06-10

Method and apparatus for performing generational garbage collection in a segmented heap

Inventor: NAGARAJAN VIJAY G (US); ROCHETTI Applicant:

ROBERT (US); (+1)

EC: G06F12/02D2G4G IPC: G06F12/00; G06F12/02; G06F17/30 (+4)

Publication info: US2004003014 - 2004-01-01

24 Garbage collector employing multiple-car collection sets

Inventor: GARTHWAITE ALEXANDER T (US) Applicant:

EC: G06F12/02D2G4G IPC: G06F12/02; G06F12/02; (IPC1-7): G06F12/00

Publication info: **US2002161792** - 2002-10-31

Trace termination for on-the-fly garbage collection for weakly-

consistent computer architecture

Inventor: KOLODNER ELLIOT K (IL); LEWIS ETHAN Applicant: IBM (US)

(IL); (+1)

EC: G06F11/34T; G06F12/02D2G4 IPC: G06F11/34; G06F12/02; G06F11/34 (+2)

Publication info: US2002120823 - 2002-08-29

CONSERVATIVE GARBAGE COLLECTORS THAT CAN BE USED WITH **GENERAL MEMORY ALLOCATORS**

Inventor: RODRIGUEZ-RIVERA GUSTAVO (US);

SPERTUS MICHAEL P (US); (+1)

EC: G06F12/02D2G IPC: G06F12/02; G06F12/02; (IPC1-7): G06F12/00

Applicant: GEODESIC SYSTEMS INC (US); RODRIGUEZ

RIVERA GUSTAVO (US); (+2)

Publication info: WO0223345 - 2002-03-21

METHODS AND APPARATUS FOR OPTIMIZING GARBAGE COLLECTION

Inventor: WALLMAN DAVID

Applicant: SUN MICROSYSTEMS INC (US)

EC: G06F9/40; G06F9/42M; (+1) IPC: G06F9/40; G06F9/42; G06F12/02 (+3)

Publication info: WO02054249 - 2002-07-11

28 Computer system with heap reset

Inventor: KOLODNER ELLIOT KARL (IL); LEWIS ETHAN Applicant: IBM (US)

(IL); (+3)

EC: G06F9/46A2M; G06F12/02D2G4 IPC: G06F9/50; G06F12/02; G06F9/46 (+2)

Publication info: **US2002056019** - 2002-05-09

29 Incremental garbage collection

Inventor: SAUNTRY DAVID M (US); MARKLEY MICHAEL Applicant: MICROSOFT CORP (US)

E (US); (+1)

EC: G06F12/02D2; G06F12/02D2G4 IPC: G06F12/00; G06F9/45; G06F9/46 (+7)

Publication info: US2001037336 - 2001-11-01

30 METHOD AND APPARATUS FOR IMPLEMENTING MODULAR GARBAGE COLLECTORS

Inventor: FRESKO NEDIM; LONG DEAN R E; (+1)

Applicant: SUN MICROSYSTEMS INC (US)

EC: G06F12/02D2G

IPC: G06F12/00; G06F9/46; G06F12/02 (+4)

Publication info: W00197042 - 2001-12-20

70 results found in the Worldwide database for:

garbage in the title AND collection and heap in the title or abstract

(Results are sorted by date of upload in database)

31 WORK-STEALING QUEUES FOR PARALLEL GARBAGE COLLECTION

Inventor: FLOOD CHRISTINE H; AGESEN OLE; (+3)

Applicant: SUN MICROSYSTEMS INC (US)

EC: G06F12/02D2G4; G06F12/02D2G4G

IPC: G06F12/02; G06F12/02; (IPC1-7): G06F12/00

Publication info: W00188713 - 2001-11-22

32 Elimination of coloring during object creation for concurrent garbage

collection

Inventor: LEWIS ETHAN (IL)

Applicant: IBM (US)

EC: G06F12/02D2G4

IPC: G06F12/02; G06F12/02; (IPC1-7): G06F12/00

Publication info: US2002147899 - 2002-10-10

33 Manipulating interior pointers on a stack during garbage collection

Inventor: DUSSUD PATRICK H (US); MORRISON VANCE Applicant: MICROSOFT CORP (US)

P (US)

EC: G06F12/02D2G

IPC: G06F17/13; G06F17/30; G06F17/11 (+2)

Publication info: US6598141 - 2003-07-22

34 INCREMENTAL CLASS UNLOADING IN A TRAIN-ALGORITHM-BASED

GARBAGE COLLECTOR

Inventor: GARTHWAITE ALEXANDER T; AGESEN OLE Applicant: SUN MICROSYSTEMS INC (US)

EC: G06F9/44M4; G06F12/02D2G4G

IPC: G06F9/44; G06F12/02; G06F9/44 (+2)

Publication info: W00161472 - 2001-08-23

35 Device and method for managing memory resources

Inventor: OZAWA TOSHIHIRO (JP); MAEDA MUNENORI Applicant:

(JP)

EC: G06F12/02D2G2

IPC: G06F12/02; G06F12/02; (IPC1-7): G06F12/00

Publication info: US2001023478 - 2001-09-20

36 On-the-fly garbage collector

Inventor: KOLODNER ELLIOT K (IL); PETRANK EREZ Applicant: IBM (US)

(IL)

EC: G06F12/02D2; G06F12/02D2G4; (+1)

IPC: G06F12/02; G06F12/02; (IPC1-7): G06F12/02

Publication info: US2001000821 - 2001-05-03

Striding-type generation scanning for parallel garbage collection

Inventor: FLOOD CHRISTINE H (US); DETLEFS DAVID L Applicant: SUN MICROSYSTEMS INC (US)

(US)

EC: G06F12/02D2G4G

IPC: G06F12/02; G06F12/02; (IPC1-7): G06F17/30

Publication info: US6526422 - 2003-02-25

38 Local allocation buffers for parallel garbage collection

Inventor: FLOOD CHRISTINE H (US); DETLEFS DAVID L Applicant: SUN MICROSYSTEMS INC (US)

(US); (+1)

EC: G06F12/02D2G4; G06F12/02D2G4G

IPC: G06F12/02; G06F17/30; G06F12/02 (+2)

Publication info: US6826583 - 2004-11-30

39 Efficient object faulting with generational garbage collection

Inventor: LEWIS BRIAN T (US); MATHISKE BERND J W Applicant: SUN MICROSYSTEMS INC (US)

(US); (+2)

EC: G06F9/44M4

IPC: G06F9/44; G06F9/44; (IPC1-7): G06F17/30

Publication info: US6493730 - 2002-12-10

REDUCED-COST REMEMBERED-SET PROCESSING IN A TRAIN-ALGORITHM-BASED GARBAGE COLLECTOR

Inventor: GARTHWAITE ALEXANDER T; AGESEN OLE Applicant: SUN MICROSYSTEMS INC (US) EC: G06F12/02D2G4G

IPC: G06F12/02; G06F12/02; (IPC1-7): G06F12/02
(+1)

Publication info: WO0113239 - 2001-02-22

70 results found in the Worldwide database for:

garbage in the title AND collection and heap in the title or abstract

(Results are sorted by date of upload in database)

INCREMENTAL HEAP EXPANSION IN A REAL-TIME GARBAGE COLLECTOR

Inventor: HELLER STEVE; FLOOD CHRISTINE H

Applicant: SUN MICROSYSTEMS INC (US)

EC: G06F12/02D2G4

IPC: G06F12/02; G06F12/02; (IPC1-7): G06F12/02

Publication info: W09964955 - 1999-12-16

52 Method of instrumenting garbage collection generating a trace file

making a single pass analysis of object heap

Inventor: BERRY ROBERT FRANCIS (US); BRYANT

Applicant: IBM (US)

RAYMOND M (US); (+4)

EC: G06F12/02D2G

IPC: G06F12/02; G06F12/02; (IPC1-7): G06F12/00

Publication info: US6434575 - 2002-08-13

53 Method for combining card marking with remembered set for generational garbage collection with more than two generations

Inventor: AZAGURY ALAIN (IL); KOLODNER ELLIOT K Applicant: IBM (US)

(IL); (+2)

EC: G06F12/02D2G4G

IPC: G06F12/02; G06F12/02; (IPC1-7): G06F17/30

Publication info: US6173294 - 2001-01-09

54 Dynamic adjustment of garbage collection

Inventor: DUSSUD PATRICK (US)

Applicant: MICROSOFT CORP (US)

EC: G06F12/02D2G

IPC: G06F12/02; G06F12/02; (IPC1-7): G06F17/30

Publication info: US6065020 - 2000-05-16

Method and apparatus for generational garbage collection of a heap memory shared by multiple processor units

Inventor: UNGAR DAVID M (US); WOLCZKO MARIO I Applicant: SUN MICROSYSTEMS INC (US)

(US)

EC: G06F12/02D2G4G

IPC: G06F12/00; G06F9/44; G06F12/02 (+4)

Publication info: EP0881576 - 1998-12-02

56 METHOD AND DEVICE FOR OPTIMIZING ACCURATE GARBAGE COLLECTION OF ARRAY NODE IN CARD HEAP

Inventor: KNIPPEL ROSS C; BEYLIN BORIS

Applicant: SUN MICROSYSTEMS INC

EC: G06F12/02D2G4G

IPC: G06F12/00; G06F12/02; G06F12/00 (+2)

Publication info: JP10301837 - 1998-11-13

57 A method and apparatus for optimizing exact garbage collection of array nodes in a carded heap

Inventor: WOLCZKO MARIO I (US); UNGAR DAVID M

Applicant: SUN MICROSYSTEMS INC (US)

(US)

EC: G06F12/02D2G4G; G06F17/30S3

IPC: G06F12/00; G06F12/02; G06F12/00 (+2)

Publication info: EP0874318 - 1998-10-28

GARBAGE COLLECTION METHOD

Inventor: SHIMURA HIROYA

Applicant: FUJITSU LTD

EC:

IPC: G06F12/00; G06F12/00; (IPC1-7): G06F12/00

Publication info: JP11232162 - 1999-08-27

Method and apparatus for assisting garbage collection process within a java virtual machine

Inventor: HUBER GARY DOUGLAS (US); MCCAULEY

Applicant: IBM (US)

DONALD WILLIAM (US)

EC: G06F12/02D2G

IPC: G06F12/02; G06F12/02; (IPC1-7): G06F17/30

Publication info: US6070173 - 2000-05-30

60 Method and apparatus for implementing a write barrier of a garbage collected heap

Inventor: SCHWARTZ DAVID C (US); KNIPPEL ROSS C Applicant: SUN MICROSYSTEMS INC (US)

(US)

EC: G06F12/02D2G4G IPC: G06F12/02; G06F12/02; (IPC1-7): G06F12/00

Publication info: **US6049810** - 2000-04-11

4 results found in the Worldwide database for:

heap in the title AND mark and garbage in the title or abstract

(Results are sorted by date of upload in database)

Computer system with heap and card table

Inventor: BORMAN SAMUEL DAVID (GB); WHARMBY

Applicant: IBM (US)

ANDREW DEAN (GB) EC: G06F12/02D2G4G

IPC: G06F12/02; G06F12/02; (IPC1-7): G06F12/00

Publication info: US2003033498 - 2003-02-13

METHOD AND DEVICE FOR OPTIMIZING ACCURATE GARBAGE **COLLECTION OF ARRAY NODE IN CARD HEAP**

Inventor: KNIPPEL ROSS C; BEYLIN BORIS

Applicant: SUN MICROSYSTEMS INC

EC: G06F12/02D2G4G

IPC: G06F12/00; G06F12/02; G06F12/00 (+2)

Publication info: JP10301837 - 1998-11-13

Method and apparatus for implementing a write barrier of a garbage

collected heap

Inventor: SCHWARTZ DAVID C (US); KNIPPEL ROSS C Applicant: SUN MICROSYSTEMS INC (US)

(US)

EC: G06F12/02D2G4G

IPC: G06F12/02; G06F12/02; (IPC1-7): G06F12/00

Publication info: **US6049810** - 2000-04-11

COMPUTER SYSTEM FOR CONSERVATIVE STACK AND GENERATIONAL HEAP-GARBAGE COLLECTION AND METHOD

THEREOF

Inventor: JIEEMUZU ERU ADOKOTSUKU

Applicant: MICROSOFT CORP

EC: G06F12/02D2G; G06F12/02D2G4G

IPC: G06F12/00; G06F12/02; G06F12/00 (+2)

Publication info: JP6095954 - 1994-04-08